Name	Energy Form	Block	Group Members	

This project will include 2 summative grades which will be reflected by the rubric below. Additional formative assessments will be assessed through the process of research, contributions to the project, and ability to reflect on the energy transformation process.

Process:

- -Students will be grouped and work together researching a selected energy source and the way that energy source is used and converted to an end product or usable energy within our society (example: how coal [thats the source] is transformed to electricity [that's the usable energy within our society])
- -Students will use note organizer provided as a place to gather data from reading materials provided.
- -After students have researched their energy source they will construct a poster explaining the energy transformations for their selected energy source and its efficiency and best use.
- -This poster will be presented to the class.
- -Students will be responsible for information and understanding of all 9 energy sources. This will be done by note taking during classmate presentations on other topics.

Products:

- *Energy Sources Project Research Note Catcher (completed individually).
- *Poster on selected energy source (completed as group).

Poster includes:

- A thorough explanation of major energy transformations involved with their energy source
- An accurate annotated diagram of the process of energy transformation with direction of energy flow.
- An explanation for the best use of energy source and its efficiency.
- 3 pros (may be related to cost, efficiency, pollutants, availability, etc.).
- 3 cons(may be related to cost, efficiency, pollutants, availability, etc.).
- An explanation of the appropriate geographic location of this energy source.
- Real life examples of energy usage.
- Identification as renewable / nonrenewable.

Resources:

- ~Energy sources packets (class copies).
- ~Physical Science Textbook (blue book) pages 254 276.
- ~Graphics sheets.

Learning Targets:

SWBAT identify and explain energy transformation in the processes used to turn different energy sources into usable energy. &

SWBAT identify and explain energy efficiency and its benefits with different types of energy sources.

^{*}Energy Sources Project - Presentation Notes (completed individually)

Energy Project Rubric	1	2	3	4
Energy Transformations	Identifies some energy transformation.	Provides an explanation of some energy transformations involved with their energy source. Provides diagram of the process of energy transformation. Provides some labels or direction of energy transformation.	Provides a thorough explanation of major energy transformations involved with their energy source. Provides accurate annotated diagram of the process of energy transformation. Provides diagram with labels and direction of energy transformation.	Provides a thorough explanation of all energy transformations involved with their energy source. Provides complete and accurate annotated diagram of the process of energy transformation. Provides diagram with labels, direction of energy transformation and additional information. Diagram is neat, colored and engaging.
Efficiency and Best Use of Energy Source	Provides an explanation of the energy source. Provides either pros or cons.	Provides an explanation for the best use of their energy source and the efficiency that is somewhat accurate or completeProvides less than 3 Pros and 3 ConsProvides a geographic location of this energy source.	Provides an explanation for the best use of their energy source and the efficiency that is complete and accurateProvides 3 pros and 3 consProvides an explanation of the appropriate geographic location of this energy sourcePresentation includes interesting facts and real life examplesCorrectly identifies source as renewable / nonrenewable.	Provides an explanation for the best use of their energy source and the efficiency that is complete, accurate, and thoroughProvides 3 Pros and 3 Cons with extensive explanationProvides an explanation of the appropriate geographic location of this energy sourcePresentation relates to real life examples with statistics and factsCorrectly identifies source as renewable / nonrenewable.

Feedback: